

**WHAT IS CLAIMED IS:**

1. An apparatus for displaying visual representations of audio signals on an object,  
comprising:  
5 a control unit for processing an input signal and performing an input signal to visual  
pattern conversion; and  
a display device for displaying said visual pattern;  
wherein said display device conforms to a surface shape of an outer surface of said object.
- 10 2. The apparatus of claim 1, wherein said input signal comprises an audio  
component.
3. The apparatus of claim 2, said control unit further comprising at least one of a  
tempo, amplitude and frequency processing unit for use during said input signal to visual pattern  
15 conversion.
4. The apparatus of claim 1, wherein said display device displays the visual pattern  
using electroluminescent material.
- 20 5. The apparatus of claim 1, wherein said display device displays the visual pattern  
using transistors.
6. The apparatus of claim 1, wherein the control unit further comprises a user

interface for controlling said input signal to visual pattern conversion.

7. The apparatus of claim 1, wherein the control unit contains software programming for controlling the generation of said visual pattern.

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8. A service provided over a data network for generating a decorative pattern at a remote client, comprising:

a transmitter for transmitting a signal to said remote client;

a receiver for receiving said signal at said client;

a display device for displaying said decorative pattern; and

a control unit for converting the received signal to a signal for generating said decorative pattern;

wherein said display device conforms to a surface shape of an outer surface of an object.

9. An apparatus for displaying visual representations of audio signals on an object, comprising:

a first moldable layer having a surface;

a plurality of light emitting devices positioned on the surface of said first moldable layer to form an array; and

a second moldable layer positioned on said plurality of light emitting devices, said second moldable layer manufactured from one of a transparent and translucent material;

wherein said apparatus is moldable to conform to a surface of an object.

10. The apparatus of claim 9, further comprising a control device having at least one input for receiving an audio signal, and further having at least one output for connecting to said plurality of light emitting devices and for controlling said light emitting devices.

5 11. An apparatus for displaying visual representations of audio signals on an object, comprising:

a first layer having a surface;

a plurality of light emitting devices positioned on the surface of said first layer to form an array; and

10 a second layer positioned on said plurality of light emitting devices, wherein said second layer manufactured from one of a transparent and translucent material;

wherein said layers include means for folding the apparatus over a surface of an object.

15 12. An apparatus for displaying sensory representations of input signals on an object, comprising:

a control unit for processing the input signal and performing an input signal to sensory pattern conversion; and

a display device for outputting said sensory pattern;

wherein said display device conforms to a surface shape of an outer surface of said object.